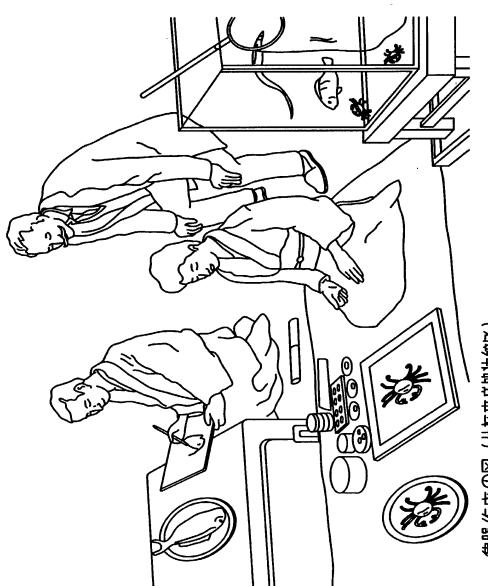
FIG. 1 PRIOR ART



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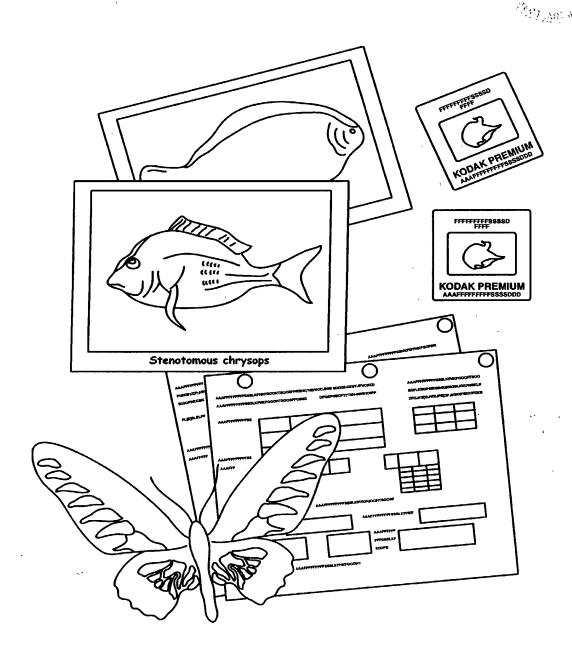
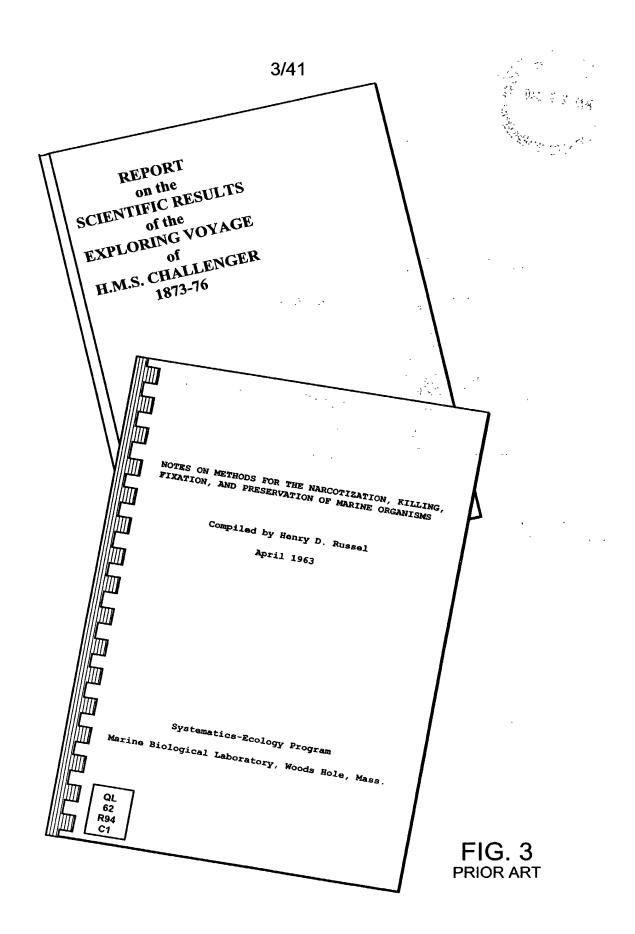


FIG. 2 PRIOR ART



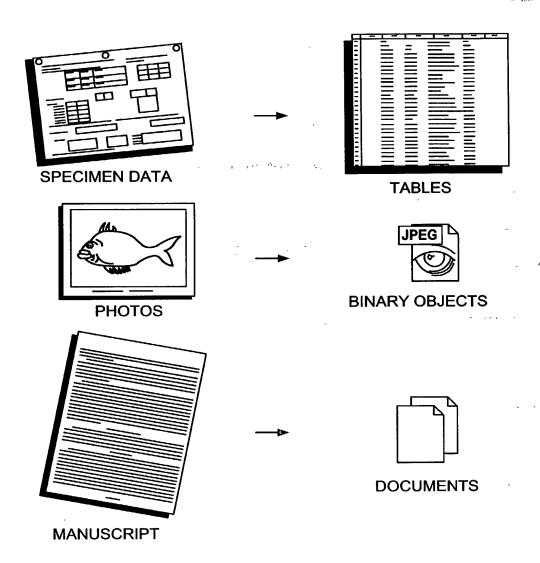
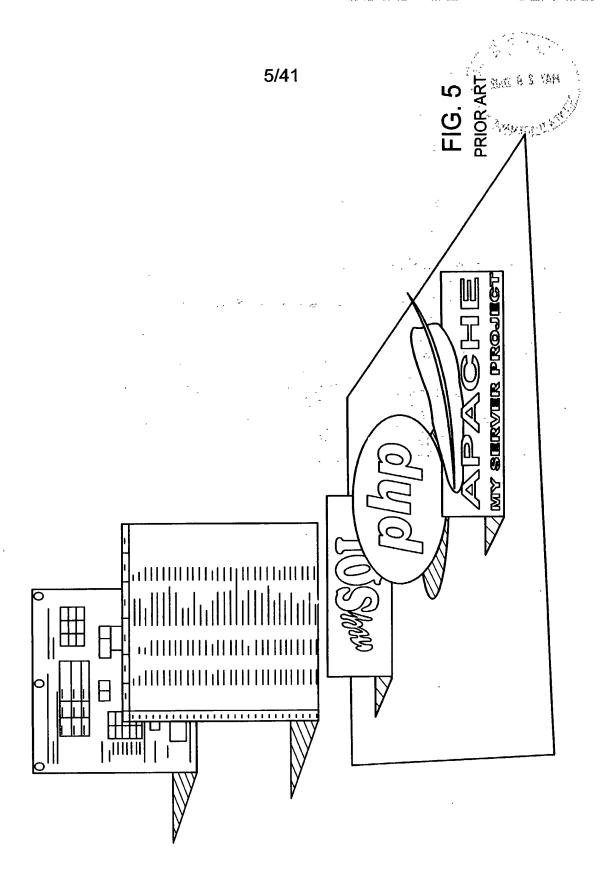
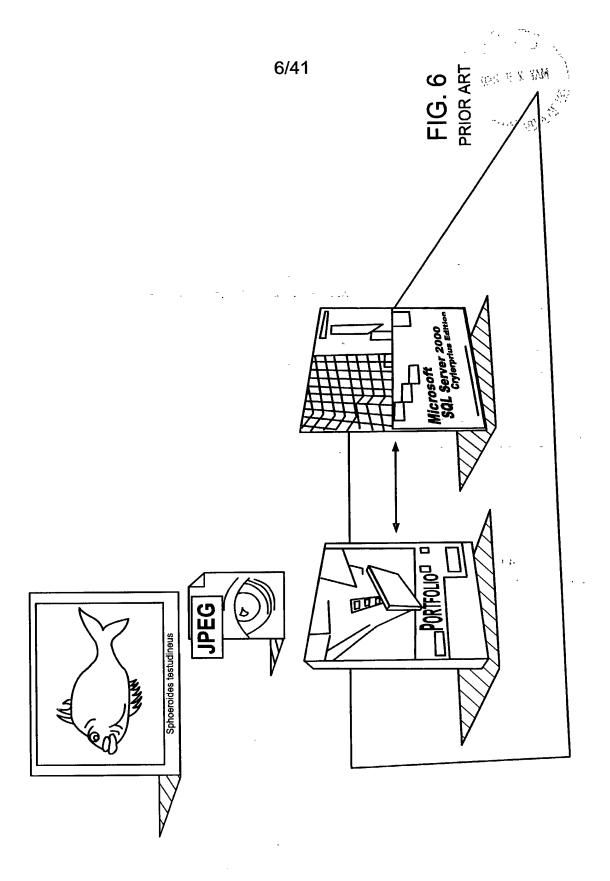
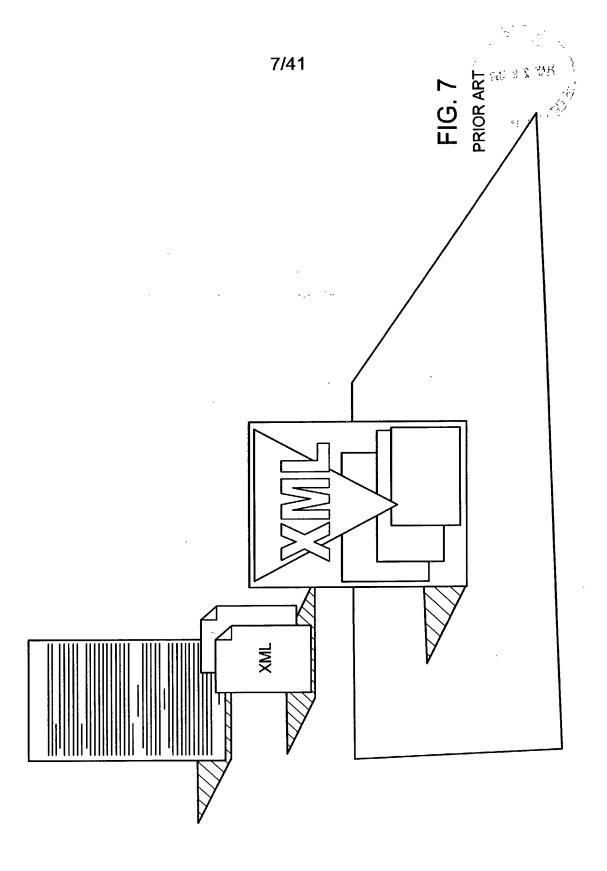


FIG. 4
PRIOR ART









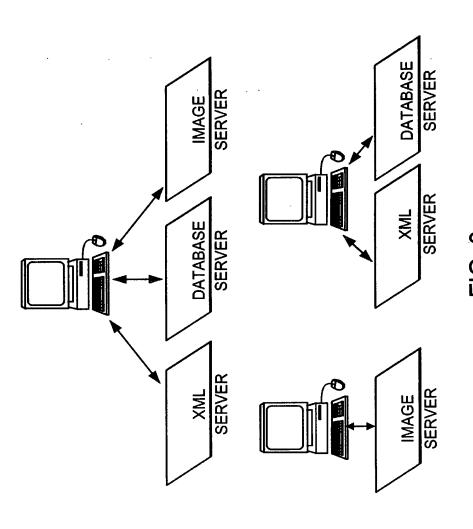
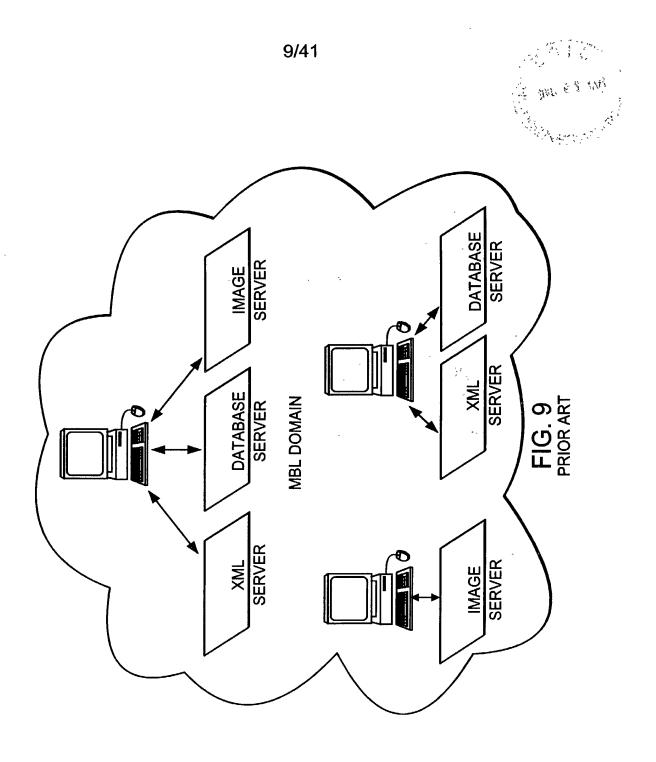
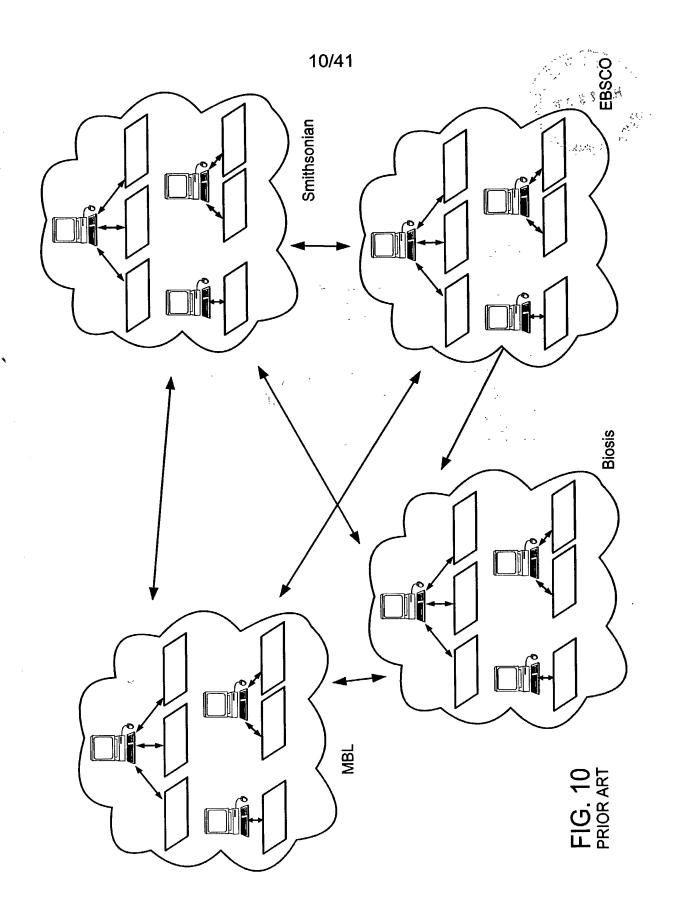


FIG. 8 PRIOR ART







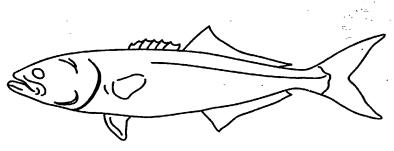


FIG. 11

FIG. 12

Organisms Eukaryote Opisthokonts Choanoflagellates And Animals Chordata Chordata Actinopterygii Perciformes Perciformes Pomatomus Pomatomus saltator	
--	--

Patterson

Margulis
Animalia
.Chordata
..Craniata
.... Gnathostomata
..... Actinopterygii
...... Perciformes
...... Pomatomus
...... Pomatomus

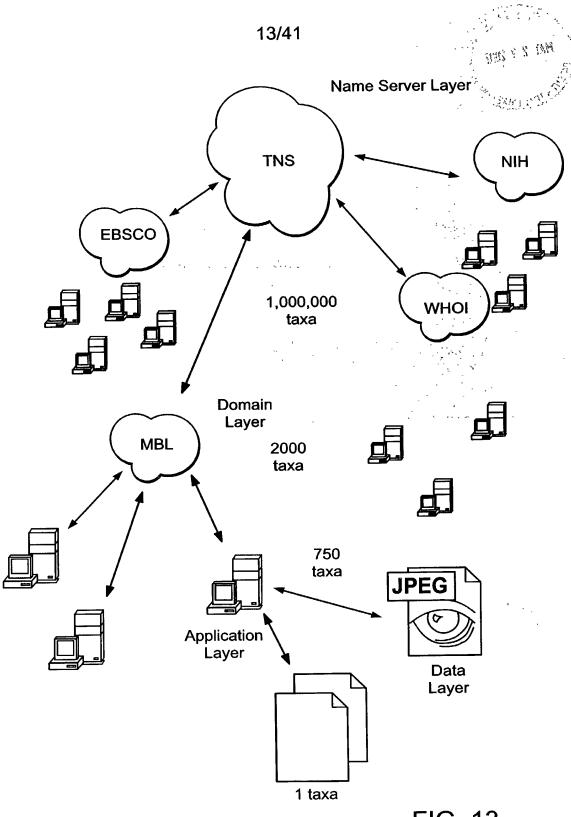


FIG. 13



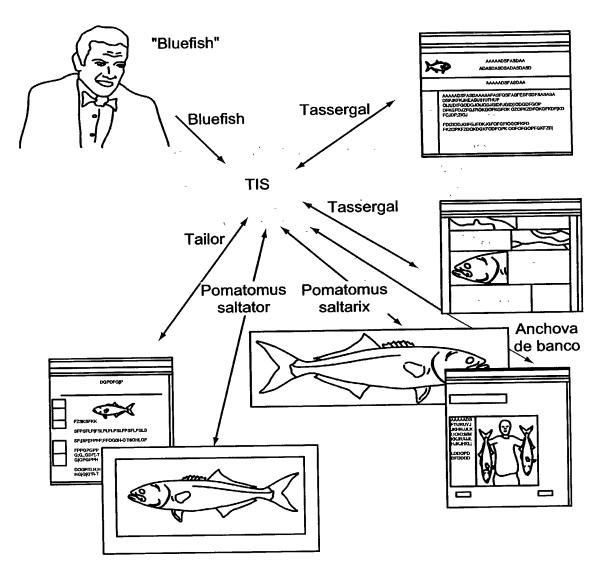
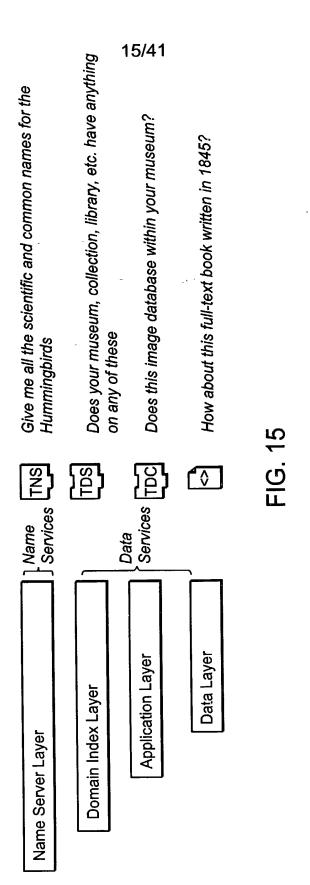
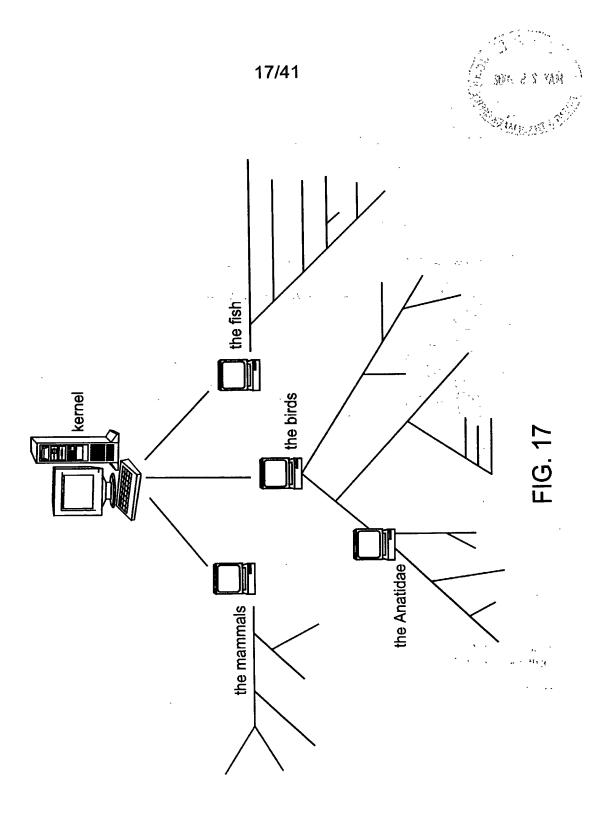


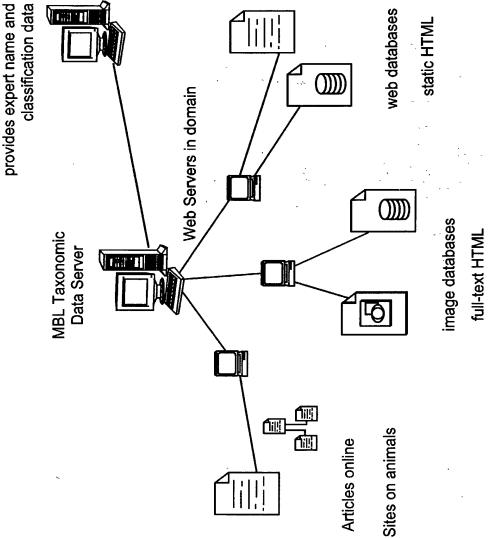
FIG. 14



Scientific names for the bluefish, Pomatomus saltator Cheilodipterus heptacanthus Cheilodipterus saltatrix Chromis epicurorum Gasterosteus saltatrix Gonenion serra Lopharis mediterraneus Perca lophar Pomatomus pedica **Pomatomus saltator** Pomatomus saltatrix Pomatomus skib Scomer sypterus Sparactodon nalnal Sypterus pallasii Temnodon conidens Temnodon saltator Temnodon tubulus

Other names Bluefish (FAO/English) Tassergal (FAO/French) Anjova (FAO/Spanish) Sinikala (Finnish) Blaufisch (German) Gofári (Greek) Pesce serra (Italian) Amikiri (Japanese) Anchova (Portuguese) Plitica (Serbo-Croat) Strijelka skakusa (Serbo-Croat) Lüfer (Turkish) Blue-fish (English) Anchova (Portuguese) Bluefish (AFS/English) Shad (English) Elf (English) Tekwaya (Arabic) Tekwa (Arabic) Tasergal (Polish) Teleskopabborre (Swedish) Dyphavsabbor (Norwegian) Enchova (Portuguese) Tailor (English) Skipjack (English) Anchova de banco (Spanish) Elwe (Afrikaans)





Taxonomic Name Server

FIG. 18

Function name

What it does

classifications();

returns the canonical list of classifications from the name

server

me(\$myID,\$d,\$type, returns the name of entity myID according to the type **\$1)** 

attribute provided

name\_types(\$d);

returns a \$d delimited array of n ame types such as

"English, French, ICZN-Current, Synonym, Misspelling, etc.

chroot(\$myID, \$classification)

sets the name server root of the application to \$myID. Sets parent of myID to zero. Allows developers of taxa specific

applications to only use relevant parts of the classification

names(\$myID,\$d, \$order.\$1)

returns an ary delimited by string, \$d

children(\$myID,\$d, \$order,\$1)

returns an array of the children on \$myID according to the \$classification,\$type, classification \$classification. Other options include the

name type to return, sort order, etc.

parent(\$myID,\$d, \$classification,\$type, \$order.\$1)

Ancestry of \$myID with many output options

list\_my\_children (\$myID)

A recursive function for dumping tree information.

get\_name(\$myID, \$name\_type, \$date,ref)

Return a specific name for a taxa such as the French form or the currently accepted name or a junior synonym.

classify(\$myID, \$classification, \$length)

Returns an array of ancestry for a given classification to a given number of steps relative to the taxa. A length of 0 returns to the tree root.

names(\$myID, \$fields)

Returns an array of all names for a given taxonomic entity.

Fields returned in the array can be specified.

dump(\$myID, \$delimiter,\$fields. \$classification)

Dumps from myID down in spreadsheet form

pad(\$myID,\$s, \$class,\$root) -

Delimiters used to pad the taxonomic level type. Ex (pad (AR201,"=-","1C",5) outputs "=-=-=-" because according to classification "1C" this entity (a genus) would be indented six places to correspond to the six levels from the starting point of level "5" (corresponding to "Phylum") from the root of classification 1C.

FIG. 19





#### MARINE BIOLOGICAL LABORATORY

directory

site map search

Marine Animals at the MBL

..♥፝<mark>♥ <u>Metazoa</u> ->></mark>

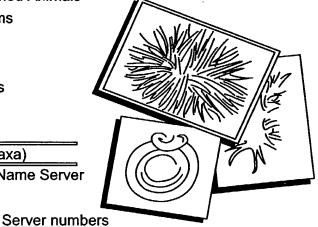
- .... 🎙 💆 Annelida Segmented Worms 🦠
- .... DArthropoda Joint-legged animals
- ..... Pryozoa Moss Animals
- ..... Chaetognatha Arrow Worms
- ..... Diagram Chordata Vertebrates and allies
- ...... Cnidaria Coelenterates
- ...... Echinodermata Spiny-skinned Animals researchers.
- ..... Hemichordata Acorn Worms
- ..... Mollusca Mollusks
- ..... Nemertea Ribbon Worms
- ...... Platyhelminthes Flatworms
- ..... Porifera Sponges
- ...... Sipuncula Peanut Worms

Expand from Metazoa down. (560 taxa)

This program uses the Taxonomic Name Server for name authority information.

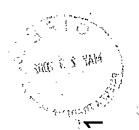
Find

This database represents approximately 200 species of marine organisms available in our Marine Resources Center and collected by the Aquatic Resources Division. Most of these organisms are available for purchase by qualified educational institutions and researchers



Click on grouping at left for a listing of species

FIG. 20



+ matrix\_id\_200.1 "teeth bicuspidate.." <6> images available <view thumbnail> www.museo.ja/fish/key - LucID Key Systematic Key to the Tetraodontidae Key to the Common Fish of Jamaica The Voyage of H.M.S. Challenger... University of California - Davis Hofstra Univ. Field Station Author: DP Remsen, 2001 Fishes of the Caribbean **MBLWHOI Library** Taxonomy Data Browser v0.9 <import>link> Data Server: zeus.mbl.edu Classifications ▶ Syctematic ▶ Regional Collections Citations Images ∇ Keys Books Δ Δ Sphoeroides testudineus Order Tetraodontiformes Sphoeroides testudineus **Tetraodon testudineus** ☐ Family Tetraodontidae Tetrodon punctatus Genus Sphoeroides Class Actinopterygii **Tetrodon punctatis** SuperClass Pisces Checkered puffer Crepaud de mer ||| Back 

#### SUMMARY OF RESULTS

Cythere crispata, Brady. Obtained also at Station 187 and Port Jackson.

" cymba, Brady. Obtained also at Station 233B, 15 fathoms.Recorded from Hong Kong.

" goujoni, Brady. Obtained also at Station 187 and Port Jackson.

" darwini, Brady Obtained also at Station 233B, 15 fathoms.Recorded from Java

" cribriformis, Brady Obtained at no other locality by the Challenger.

Loxoconcha sinensis, Brady Obtained also at Station 233B, 15 fathoms. Recorded from Hong Kong.

Bythocythere orientalis, Brady Obtained also in Torres Strait.

Cytherella cingulata, Brady Obtained also at Stations 187, 189, and Port Jackson

MACRUHA (Spence Bate, Zool. pt 52).

Alpheus rupax, Fabricius. One specimen (10 fathoms): obtained at no other locality by the Challenger.

Nauticaris unirecedens, n.g., n.sp. One specimen; obtained at no other locality.

#### ANOMURA (Henderson, Zool. pt. 69)

Spiropagurus spiriger (De Haan), One spicemen in the shell of *Pleurotoma* (10 fathoms); for distribution see Torres Strait.

Porcellana serratifrons, Stimson. One specimen (10 fathoms); obtained also in Arafura Sea.

Rephidopus ciliatus, Stimpson. One specimen (10 fathoms); obtained at no other locality by the Challenger. Recorded from Hong Kong.

#### BRACHYCRA (Miers, Zool. pt. 49)

Neptunas (Amphitrite) hastatoides (Fabricius). Several Specimens (10 fathoms); obtained also at Stations 188, 233B, and Japan.

Goniosoma cruciferum (Fabricius). One specimen (7 fathoms); obtained at no other locality by the Challenger.

Arcunia septemspinosa (Fabricius). Three specimens (10 fathoms) obtained also at Station 233B, 16 fathoms, and Japan.

Leucosia craniolaris (Linué). Two specimens (10 fathoms); obtained also at Stations 188, 190, and Japan.

Dorippe facchino (Herbst). One specimen (10 fathoms); obtained at no other locality by the Challenger.

#### GASTEROPODA (Watson, Zool. pt. 42).

Pleurotoma (Surcula) tuberculata, Gray. (10 fathoms); obtained also in Arafura Sea.

ing inimals; inating marine nohs of d by a reeding ture of growth

June, whereas the contain only smaller eggs after the early part of July, No individual, however, is actually known to have given birth to two broods in a single summer.

The sand shark, Carcharias Littoralis, the most common shark at Woods Hole during the summer, so far as I know, has never been taken during the breeding season all the individuals being apparently imma

FIG. 23

The Bluefish, Pomatomus saltator

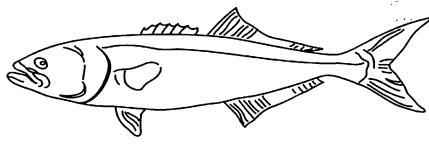


FIG. 24



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FIG. 25

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Bluefish (E)	Cheilodipterus heptacanthus (Syn)	Chromis epicurorum (Syn)		Gonenion serra (Syn)	Pomatomus pedica (Syn)	Pomatomus saltatrix (Syn)	omus skib (Syn) r svoterus (Svn)	don nalnal (Syn)		on saltator (Syn)	on tubulus (Syn)	Chopper (E)	Tailor (E)	napper Blue (E)	Amikiri (Jan)	Ach'ked (Arah)	Anchove (Bort)	a de hanco (Sn)	Apiova (Sp.)	(do) poolitor		(=) usii-enia	navsabbor (Nor)	(E) Ell (E)	Elwe (Afri)	Enchova (Port)	Gófari (Gree)	Lüfer (Turk)
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hbase.org				1	Common Names					Dometoms us selfetor	Cinaconses sanato	Gasterosieus saltator	Pomatomues saltator	Teminadors saltator	Pomatomues saltator	Ckestadipterics saltator	Ferca lophas	Ckestadipterics heptocaritkins	Pomatomues sitrub	Laphans mechterranens	Garrierison sema	Scamer rypterus	Sypterus pallaris	Chronmis spiereroroum	Teminadors coniderus	Sparactodon nalnal	Teminadors tubvulus	re (Sw)
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Classification Information

www.fishbase.org

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SuperClass PiscesClass ActinopterygiiOrder PerciformesFamily Pomatomic	Bin			ıltator		Status	misspelling	original combination	new combination	new combination	new combination	new combination	junior synonym	Junior synonym	junior synonym	junior synonym	junior synonym	Junior synonym	Junior synonym	Junior synonym	Junior synonym	junior synonym	other
		Common Names of Pomatomus saltator		Synonyms of Pomatomus saltator		Author	(Lumaeus, 1766)	(Lumaeus, 1766)	(Lumaeus, 1766)	(Lumaeus, 1766)	(Lumaeus, 1766)	(Lumaeus, 1766)	Formold, 1775	Lacepede, 1801	<u>Lacapede, 1802</u>	Rafresque, 1810	Rafresque, 1810	Pallas, 1814	Eschwalds, 1831	Crinmaw, 1864	Caeselnau, 1861	Rochebrune, 1880	Saville Kent, 1893
		Common Names o				Synomym	Pomatomses saltator	Gasterosieus saltator	Pomatomses saltator	Teminadors saltator	Pomatomses sattator	Ckestadipterics saltator	Ferca lophas	Ckestadipterics heptocaritkins	Pomatomses sitrub	Lapharis mechterranens	Garrierison sema	Scamer rypterus	Sypterus pallaris	Chronmis spiereroroum	Teminadors coniderus	Sparactodon nainal	Teminadors tubvulus
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1. Macrofauna description [2]

Description of the Macrofauna in Plum Island Sound Macrofauna are abundant and diverse throughout the Plum Island Sound estuary. Twenty eight species of fish have been recorded in the brackish to marine areas and another 10 from the freshwater portion....

- http://ecosystems.mbl.edu/PIE/data/HTL/HTLDescription.htm (text/html) Wed, 19 Jul 2000 15:11:39 GMT, 3406 bytes
- 2. No title [2]

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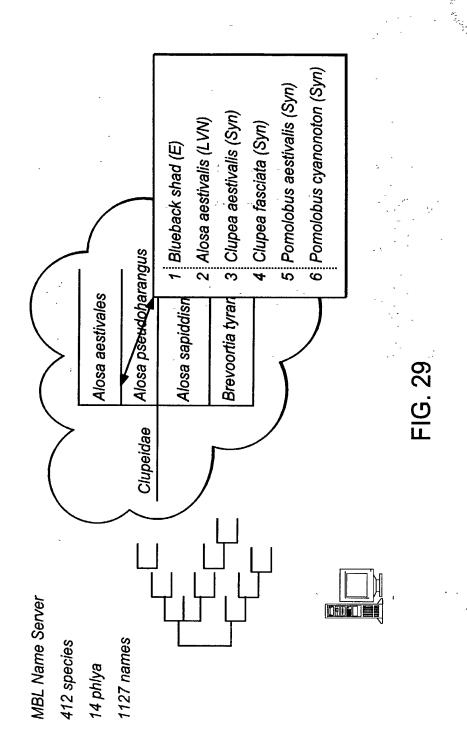
- http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-Survey.txt (text/html) Wed, 19 Jul 2000 14:53:41 GMT, 174862 bytes
- 3. No title [2]

STATION STATE X STATE Y LAT LON SAL SITE NAME SCI NAME 15N 13C 34S HTL-SO-3(Knob) 257402.95 942546.27 42.73139029 70.79906604 30 MID sand shrimp Crangon septemspinosa 10.5 -16.3 8.6 HTL-SO-5(Sub Headquarters) 256334.1 945265.44 42.75594527 70.81184907...

- http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-Isotope.txt (text/html) Wed, 19 Jul 2000 14:18:16 GMT, 8767 bytes
- 4. <u>No title</u> [2]

Plum Island Ecosystem Long Term Ecological Research (PIE-LTER) LMER Intercomparison Stable Isotope Data Set Updated 2/14/97 Organic matter Real/measured Forward model stable isotope data Budgets stable...

http://ecosystems.mbl.edu/PIE/data/STP/STP-VA-OMInterisotope.txt (text/html)
 Wed, 19 Jul 2000 15:18:07 GMT, 20535 bytes



Links: Pomatomus saltator

Classification: ICLARM:FishBase

Database of Marine Organisms

The Flescher Slides Collection

The Biological Bulletin Citations Datbase Compendium of Eggs and Embryoes MRC Catalog of Specimens

......Binomen Pomatomus saltator

.....Family Pomatomidae .....Genus Pomatomus

.....Class Actinopterygii .....Order Perciformes

....SuperClass Pisces

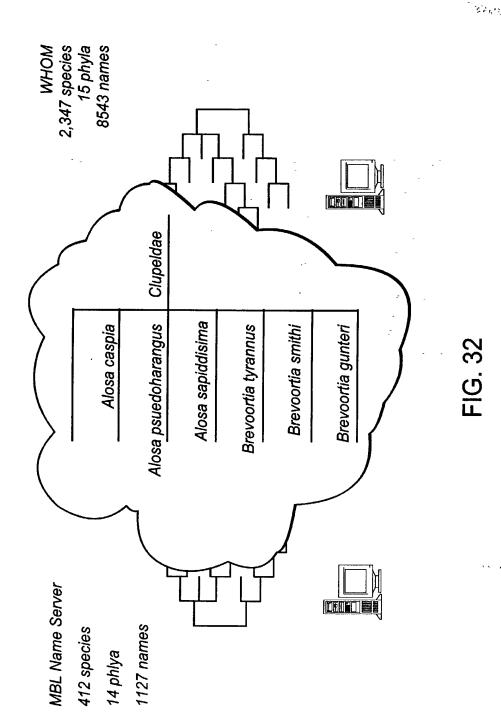
The Teaching Charts of Rudolph Leuckar

Names:

Bluefish (E)

Cheilodipterus heptacanthus (Syn) Cheilodipterus saltatrix (Syn) Gasterosteus saltatrix (Syn) Pomatomus saltator (I.VN) Cromis epicurorum (Syn)

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type	F1045 F36 Classificati	Entity Description (use currently accepted latin name)	Pomadasys striatus Pomadasys striatus Pomadasys stridens Pomadasys suillus Pomadasys taeniatus Pomadasys trifasciatus Pomadasys unimaculatus Pomatomus saltator Pomatoschistus bathi Pomatoschistus canestrinii Pomatoschistus marmoratus Pomatoschistus microps Pomatoschistus microps Pomatoschistus microps Pomatoschistus microps Pomatoschistus pictus
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Links: Brevoortia tyrannus

MBL

Database of Marine Organisms

The Flescher Slides Collection

The Biological Bulletin Citations Datbase

MRC Catalog of Specimens

Compendium of Eggs and Embryoes

The Teaching Charts of Rudolph Leucka?

Woods Hole Oceanographic Institution

Discovery: The Salt Marsh

Mariner Library Catalog

Oceanus Magazine: Oct 1983 Issue

JASON Project, 1997 Fisheries Worldw?

Laboratory of Dr. Peter Cummins

-1G. 33

....SuperClass **Pisces**.....Class **Actinopterygii**........Arder **Clupeiformes**......Family **Cluepeidae**......Genus **Brevoortia**.....Binomen **Brevoortia tyrannus** 

Classification: ICLARM:FishBase

Names:
Atlantic menhaden (E)
Brevoortia tyrannus (L)
Clupea carolinensis (Syn)
Clupea menhaden (Syn)
Clupea neglecta (Syn)
Clupea tyrannus (Syn)



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FIG. 35

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FIG. 36A	FIG. 36B	FIG. 36C	FIG. 36					-
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FIG. 36A

Cheilodipterus heptacanthus (Syn)

Pomatomus saltator (L)

Bluefish (E)

Lopharis mediterraneus (Syn) Cheilodipterus saltatrix (Syn) Gasterosteus saltatrix (Syn) Chromis epicurorum (Syn) Pomatomus saltatrix (Syn) Temnodon conidens (Syn) Pomatomus pedica (Syn) Sparactodon nalnal (Syn) Temnodon saltator (Syn) Temnodon tubulus (Syn) Sypterus pallasii (Syn) Scomer sypterus (Syn) Pomatomus skib (Syn) Gonenion serra (Syn) Perca lophar (Syn) Chopper (E)

Snapper Blue (E) Tassergal (FR) Tailor (E)

Anjova (Sp) Sinikala (Fi)

Blaufisch (Gr) Gofári (Gk) Pesce serra (It) Anchova (Pr)



SQL outputs: parent/child & columns: Pending

Strijelka skakusa (Serb) Plitica (SC)

Blue-fish (E) Lüfer (Tk)

Anchova (Pr) Shad (E)

Tekwaya (Ar) Tekwa (Ar) Elf(E)

Teleskopabborre (Sw) Tasergal (Po)

Dyphavsabbor (No) Enchova (Pr) Skipjack (E)

Anchova de banco (Sp) Elwe (Af)

explode

Dump Level:

Delimiter: |

Data Views:

	. 38 <i>//</i> 1
	MALE NA
	38/41 1900-10 6 1997
-	Marie Marie

Various out	put form	ats served by the	Name Serv	Various output formats served by the Name Server layer via a Taxonomic Name Server	mic Name Server
A table of all names and their qualifiers	and their	A string containing the preferred name	A table with a specified and the preferred name	list of taxa levels	The full ICZN classification with "##" as a delimiter
tns -nq "Name/Qualifier" -t- name "Pomatomus saltatrix"	ier" -t- lltatrix"	tns -pv -name "Pomatomus saltatrix" -s	tns -c,pv,l "Kingdom,Phylum,Class,Ord Genus,Species" -name "Pomatomus saltatrix"	tns -c.pv,l "Kingdom,Phylum,Class,Order,Family, Genus,Species" -name "Pomatomus saltatrix"	tns -c.pv,a -name "Pomatomus saltatrix" -l-t##
Name	Qualifier		Kingdom	Eukaryota	EUKARYOTES##Living_Organisms Kingdom##
Bluefish ()	(E)	Pomatomus saltator Phylum	Phylum	Chordata	SubKingdom##OPISTHOKONTS ParvPhylum##Metazoa
Pomatomus saltator (L)	[]		Class	Actinopterygii	Phylum##Chordata Subphylum ##Vertebrata
Cheilodipterus (;	(Syn)		Order	Perciformes	Superclass## Gnathostomata Class##Osteichthyes
Cheilodipterus (;	(Syn)	∜ ,7 •	Family	Pomatomidae	subClass##Actinopterygii SuperClass##Pisces
Chromis (apicurorum	(Syn)	-	Genus	Pomatomus	Class##Actinopterygii Order##Perciformes

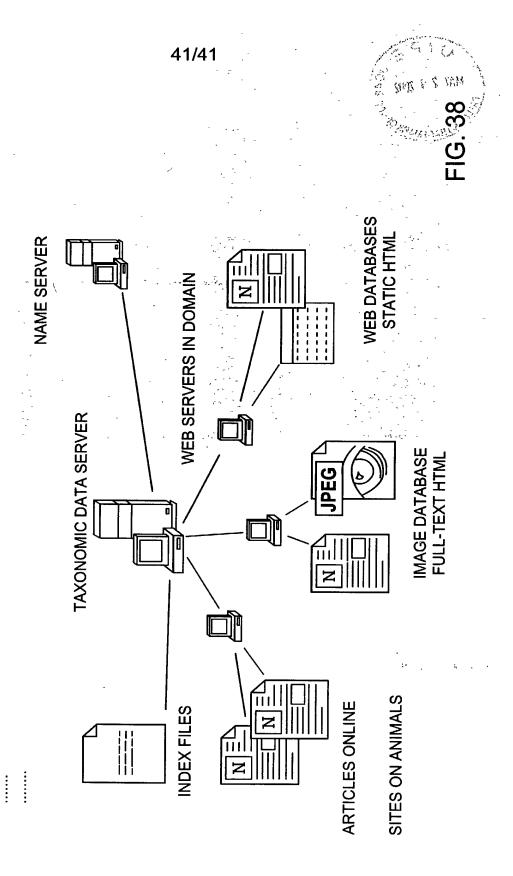
FIG. 37A

* .3	
F. War C. J. W.	
37B	
<sup>ક</sup> ેલ્લે લાં	
జ	

Various output 1		s served by the N	lame Ser	ormats served by the Name Server layer via a Taxonomic Name Server	c Name Server
Gasterosteus saltatrix	(Syn)		Species	saltator	Family##Pomatomidae Genus##Pomatomus Species##saltator
,			or the sam names	or the same table with common English names	in the second se
Gonenion serra	(Syn)		tns -c,ce,l "Kingdom,Phyl Genus,Species" -name "Pomaton	tns -c,ce,l "Kingdom,Phylum,Class,Order,Family, Genus,Species" -name "Pomatomus saltatrix" -t:	, ,
Lopharis mediterraneus	(Syn)		Kingdom:	Kingdom: EUKARYOTES	
Perca lophar	(Syn)		Phylum:	Animals with Backbones	
Pomatomus pedica (Syn)	(Syn)		Class:	Ray-finned Fish	
Pomatomus saltatrix	(Syn)		Order:	Perches and Allies	
Pomatomus skib	(Syn)		Family:	Bluefish Family	
Scomer sypterus	(Syn)		Genus:	Bluefish	
Sparactodon nalnal (Syn)	(Syn)		Species:	Bluefish	-
Sypterus pallasii	(Syn)	ŧ			-

Various output formats served by the Name Server layer via a Taxonomic Name Server (Syn) Temnodon tubulus (Syn) Temnodon saltator (Syn)  $\widehat{\mathbf{H}}$  $\widehat{\mathbf{m}}$  $\widehat{\mathbb{E}}$ Snapper Blue Temnodon conidens Chopper Tailor

FIG. 37C



ENTITYID NAME URL AR1001 POMATOMUS SALTATRIX HTTP://ZEUS.MBL.EDU/AD.PL? ZT7801 STENOBOMUYS CHRYSOPS HTTP://www.MBL.EDU/ANIMA

:



Name/Number: 10087621

Start Date: Any Date

Total Records Found: 3

End Date: Any Date

Accounting Date	Sequence Num.	Tran Fee Type Code	Fee Amount Mailroom Date	Payment Method
04/18/2002	00000097	$\underline{1}$ $\underline{632}$	\$130.00 04/18/2002	DA 080219
06/03/2002	00000043	<u>1</u> <u>205</u>	\$65.00 05/29/2002	DA 080219
06/05/2002	00000153	<u>1</u> <u>581</u>	\$40.00 05/29/2002	DA 080219